

**From:** Cynthia Caporale/ESC/R3/USEPA/US  
**Sent:** 12/19/2011 10:59:56 AM  
**To:** Cynthia Metzger/ESC/R3/USEPA/US@EPA  
**CC:**  
**Subject:** Fw: Sampling list for Dimock

More to come...

Cynthia Caporale, Chief  
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----- Forwarded by Cynthia Caporale/ESC/R3/USEPA/US on 12/19/2011 10:59 AM -----

**From:** Richard Rupert/R3/USEPA/US  
**To:** KarenD Johnson/R3/USEPA/US@EPA  
**Cc:** Cynthia Caporale/ESC/R3/USEPA/US@EPA, Dennis Carney/R3/USEPA/US@EPA, Richard Fetzer/R3/USEPA/US@EPA, Ann DiDonato/R3/USEPA/US@EPA, Gerald Heston/R3/USEPA/US@EPA  
**Date:** 12/19/2011 09:29 AM  
**Subject:** Re: Sampling list for Dimock

Karen,

Thanks for working so quickly on this...

**Ex. 5 - Deliberative**

**Ex. 5 - Deliberative**

# Ex. 5 - Deliberative

thanks  
Rich

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From: KarenD Johnson/R3/USEPA/US  
To: Richard Rupert/R3/USEPA/US  
Cc: Cynthia Caporale/ESC/R3/USEPA/US@EPA, Dennis Carney/R3/USEPA/US@EPA, Richard Fetzer/R3/USEPA/US@EPA, Ann DiDonato/R3/USEPA/US@EPA, Gerald Heston/R3/USEPA/US@EPA  
Date: 12/19/2011 08:25 AM  
Subject: Re: Sampling list for Dimock

# Ex. 5 - Deliberative

# Ex. 5 - Deliberative

Karen D. Johnson, Chief  
Ground Water & Enforcement Branch

From: Richard Rupert/R3/USEPA/US  
To: Cynthia Caporale/ESC/R3/USEPA/US@EPA, KarenD Johnson/R3/USEPA/US@EPA  
Cc: Dennis Carney/R3/USEPA/US@EPA, Richard Fetzer/R3/USEPA/US@EPA, Ann DiDonato/R3/USEPA/US@EPA, Gerald Heston/R3/USEPA/US@EPA  
Date: 12/18/2011 06:25 PM  
Subject: Sampling list for Dimock

Cindy and Karen,

Attached to this email is a list of substances that I propose be evaluated for in the groundwater samples we collect at Dimock. I am providing the list so you may have your staffs review the list to see if I missed anything. I would also very much appreciate identifying the correct analytical method for each substance if you are able. My assumption is that we should be using Drinking Water Methods when at all possible. The list was compiled from a variety of sources. The body of the list (99%) was taken from report - "Chemicals Used In Hydraulic Fracturing, US House Of Representatives", Committee On Energy And Commerce Minority Staff, April

2011. Also referenced was the draft Hydraulic Fracturing Retrospective Case Study, Bradford-Susquehanna Counties, PA Quality Assurance Project Plan prepared by EPA ORD/NRMRL and Regions 3 & 8. Further, I cross referenced the "Chemicals Used in the Hydraulic Fracturing Process in Pennsylvania" list, Prepared by the PaDEP. I later found a updated list from PaDEP and will have our contractor assure we have everything.

I know it is a long list but, I think a relatively short list of analytical methods will provide most of the substances. Rich Fetzer and I will be tasking the contractor tomorrow (Monday 19 December) to prepare the Sampling and Analysis Plan. As you all know we are on an extremely tight schedule for this project, so I ask that you give this request high priority. I would like comments by Wednesday if at all possible. I think I am in pretty good shape so if you cannot make the deadline don't fret. You will be able to review the draft SAP if you wish.

I am attaching both a pdf and the original excell file I prepared so comments can be enter directly on the spreadsheet if you wish. Perhaps the correct analytical method be added to a column on the spreadsheet. My intention is to request Fort Meade do as much of the analysis as possible.

thanks, please contact me at mobile listed below with any questions.

v/r

Rich

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[attachment "List of Analytes\_17Dec11.xlsx" deleted by KarenD Johnson/R3/USEPA/US] [attachment "List of Analytes\_17Dec11.pdf" deleted by KarenD Johnson/R3/USEPA/US]